

Appl. No. 10/088,432
Amendment dated January 14, 2005
Reply to Final Office Action of November 3, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-12. (Canceled)

13. (Currently amended) A process for restructuring keratin fibers comprising applying to keratin fibers

(a) at least one enzyme having transglutaminase activity wherein the enzyme is a calcium-independent transglutaminase; and

(b) at least one active substance having substrate activity for the enzyme.

14. (Canceled)

15. (Previously Presented) The process of claim 13 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate, or combinations thereof.

16. (Previously Presented) The process of claim 13 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate of elastin, collagen, keratin, silk, soya, almond, pea, alga, potato, or wheat, or combinations thereof.

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17. (Previously Presented) The process of claim 16 wherein the active substance comprises casein, soya protein or wheat protein, or combinations thereof.

18. (Previously Presented) The process of claim 13 wherein the active substance having substrate activity comprises a substance synthetically functionalized with an H₂N-R group or an H₂N-(CO)-R' group, wherein R and R' represent an unbranched C₁₋₈ alkylene group.

19. (Previously Presented) The process of claim 18 wherein the synthetically functionalized substance has at least one H₂N-(CH₂)₄ group.

20. (Previously Presented) The process of claim 18 wherein the synthetically functionalized substance has at least one H₂N-(CO)-CH₂-CH₂ group.

21. (Previously Presented) The process of claim 13 wherein the enzyme having transglutaminase activity and the active substance having substrate activity are applied simultaneously to the keratin fibers.

22. (Previously Presented) The process of claim 13 wherein the enzyme having transglutaminase activity, and the active substance having substrate activity are applied successively in any order.

23. (Previously Presented) The process of claim 13 wherein the enzyme having transglutaminase activity is contacted

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with the keratin fibers for a contact time of 3 minutes to 120 minutes.

24. (Currently amended) A process for setting keratin fibers comprising

(a) applying to keratin fibers at least one enzyme having transglutaminase activity, wherein the enzyme is a calcium-independent transglutaminase, and at least one active substance having substrate activity for the enzyme; and

(b) setting the keratin fibers.

25. (Previously Presented) The process of claim 24 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate of elastin, collagen, keratin, silk, soya, almond, pea, alga, potato, or wheat, or combinations thereof.

26. (Previously Presented) The process of claim 25 wherein the active substance comprises casein, soya protein or wheat protein, or combinations thereof.

27. (Canceled)

28. (Previously Presented) A multi-part kit for restructuring keratin fibers comprising

(a) a first composition comprising at least one enzyme having transglutaminase activity; and

(b) a second composition having an active substance with substrate activity for the enzyme.

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From:HENKEL CORPORATION PATENT DEPT,

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29. (Previously Presented) The kit of claim 28 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate of elastin, collagen, keratin, silk, soya, almond, pea, alga, potato, or wheat, or combinations thereof.

30. (Previously Presented) The kit of claim 29 wherein the active substance comprises casein, soya protein or wheat protein, or combinations thereof.

31. (Previously Presented) The kit of claim 30 wherein the enzyme having transglutaminase activity comprises a calcium-independent transglutaminase.